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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/624,794	07/22/2003	Juha Mikko Hakkarainen	55123P256	7468		
8791	7590 09/01/	005	EXAM	EXAMINER		
	SOKOLOFF TAY	PERT, E	PERT, EVAN T			
SEVENTH	SHIRE BOULEVAR FLOOR	,	ART UNIT	PAPER NUMBER		
LOS ANGE	LES, CA 90025-10	2826	2826			
			DATE MAILED: 09/01/200	5		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No		Applicant(s)	<u> </u>	
Office Action Summary		10/624,794		HAKKARAINEN ET AL.		(M)
		Examiner		Art Unit		
		Evan Pert		2826		
Period fo	The MAILING DATE of this communication app r Reply	pears on the cove	r sheet with the c	orrespondence add	dress	
WHIC - Exter after - If NO - Failui Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS Co 36(a). In no event, how will apply and will expire , cause the application	OMMUNICATION rever, may a reply be timed SIX (6) MONTHS from the become ABANDONE	l ely filed he mailing date of this co) (35 U.S.C. § 133).		
Status						
2a) <u></u> ☐	Responsive to communication(s) filed on <u>20 Ju</u> This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-fir	rmal matters, pro		merits is	
Dispositi	on of Claims			•		
5)	Claim(s) 1-10 and 16-67 is/are pending in the at 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-10 and 16-67 are subject to restriction Papers The specification is objected to by the Examine	wn from conside	on requirement.	· vomino-		
,—	The drawing(s) filed on is/are: a) access applicant may not request that any objection to the conference of the decement drawing sheet(s) including the correct the oath or declaration is objected to by the Expression of the expression is objected to by the Expression of the declaration is objected to by the Expression of the exp	drawing(s) be held tion is required if the	in abeyance. See ne drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CF).
Priority u	nder 35 U.S.C. § 119		•			
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureausee the attached detailed Office action for a list	s have been rec s have been rec rity documents h u (PCT Rule 17.2	eived. eived in Application ave been receivee 2(a)).	on No d in this National S	Stage	
2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5) [Interview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:		-152)	

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DETAILED ACTION

Prior Art

1. The references to Hester, Carreau et al., and Giuroiu et al., cited as part of this communication, could be relied on at least for rejection of original claim 1. See col. 2, lines 24-31 of Hester, Fig. 4 of Carreau et al., and/or Fig. 3b of Giuroiu et al..

Election/Restrictions

- 2. The restriction to species by the previous examiner of record and traversed by applicant is withdrawn.
- 3. Given the short amount of time an examiner has to review "an invention," and in view of the fact that claim 1 is seemingly anticipated by at least 3 references, the multiple inventions claimed are a burden to this examiner:
- 4. Restriction to one of the following inventions is required under 35 U.S.C. 121, (although rejoinder is possible dependent on how applicant addresses the references cited above):
 - Claims 1-10, drawn to a capacitor array in an IC, classified, for example, in class 257, subclass 532.
 - II. Claims16-20, drawn to a computer program product for layout of a capacitor array in an IC, classified, for example, in class 716, subclass 2.
 - III. Claims 21-42, drawn to a DAC, classified, for example, in class 341, subclass 144.
 - IV. Claims 43-67, drawn to an ADC, classified, for example, in class 341, subclass 155.

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5. The inventions are distinct, each from the other because of the following reasons:

A DAC and ADC are useful for different purposes (one converts from analog to digital, while the other converts from digital to analog), and both the claimed ADC and DAC are independent and distinct from "a computer program product" that can be used for CAD design of circuits other than an ADC or DAC. Furthermore, the capacitor array, as claimed, can be made without the claimed program product, and could be part of things other than an ADC or DAC.

The inventions of III/IV and I are related as combination and subcombination, with the subcombination "capacitor array" being useful for other than a DAC or ADC.

- 6. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 7. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 8. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Evan Pert whose telephone number is 571-272-1969.

The examiner can normally be reached on M-F (7:30AM-3:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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Business Center (EBC) at 866-217-9197 (toll-free).

ETP

August 30, 2005

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